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PATENT ABSTRACTS OF JAPAN

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(71) Applicant: TOYOTA AUTOM LOOM WORKS LTD

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(72) Inventor: ASADA HIROAKI
KUSHIBE TETSUAKI(54) HYDRAULIC CONTROLLER FOR TILT CYLINDER
IN FORKLIFT

7 is performed by a controller 3.

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(57) Abstract

PURPOSE: To improve the operation property of a tilt lever and prevent a load collapse by controlling the opening of a control valve, based on the operation amount of an operation means, by an opening order value in response to the weight of a load so as to control the slanting of a fork.

CONSTITUTION: A tilt cylinder 11 slanting the fork 7 on a forklift, a pressure sensor 12 detecting the weight of a load which is brought up by the fork 7, a lever operation amount detection sensor 9 detecting the operation amount of a tilt lever 8 for setting the extension/contraction speed of the tilt cylinder 11 and a control valve 10 for adjusting the flow rate of an operation oil in the tilt cylinder 11 and the slanting speed of the fork 7 are arranged. The opening order value for controlling the opening of the control valve per the weight of a load is memorized in a memory 17 and the opening of the control valve 10 is controlled by the opening order value in response to the operation amount of the tilt lever 8 and the slanting control of the fork

